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APPLICATION NO	. F!	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/009,504		03/28/2002	Garry Royston Fish	10541-824	5011	
29074	7590	11/17/2003		EXAMINER		
BRINKS : P.O. BOX		ILSON & LIONE	FLANIGAN, ALLEN J			
	), IL 6061	1		ART UNIT	PAPER NUMBER	
	,			3753		
				DATE MAILED: 11/17/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Applicati	on No.	Applicant(s)	— V×1				
		10/009,5	04	FISH, GARRY RO	OYSTON				
C	Office Action Summary	Examine	r	Art Unit					
		Allen J. F	lanigan	3753					
	MAILING DATE of this communic			h the correspondence ac	Idress				
Period for Re	ply								
THE MAIL - Extensions after SIX (6) - If the period - If NO period - Failure to re - Any reply re	ENED STATUTORY PERIOD FO ING DATE OF THIS COMMUNIC of time may be available under the provisions of MONTHS from the mailing date of this communication for reply specified above is less than thirty (30) for reply is specified above, the maximum state ply within the set or extended period for reply we be the office later than three months after that term adjustment. See 37 CFR 1.704(b).	CATION.  of 37 CFR 1.136(a). In no evalunication.  ) days, a reply within the statutory period will apply and within, by statute, cause the app	vent, however, may a re tutory minimum of thirty vill expire SIX (6) MONT plication to become ABA	ply be timely filed  (30) days will be considered timel  (HS from the mailing date of this candoned to the can	ly. ommunication.				
1)⊠ Res	consive to communication(s) filed	on <u>17 September</u>	<u>2003</u> .						
2a)⊠ This	action is <b>FINAL</b> . 2b	o)⊟ This action is n	on-final.						
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Disposition o	f Claims								
4)⊠ Claiı	m(s) <u>1-13 and 15-25</u> is/are pendi	ng in the application	l.						
*	of the above claim(s) is/are								
5)∐ Claiı	Claim(s) is/are allowed.								
6)⊠ Claiı	Claim(s) <u>1-13 and 15-25</u> is/are rejected.								
7)∐ Claiı	Claim(s) is/are objected to.								
8)∏ Claii	n(s) are subject to restrict	ion and/or election r	equirement.						
Application P	apers								
9)□ The :	specification is objected to by the	Examiner.							
10)□ The	drawing(s) filed on is/are:	a) accepted or b	)□ objected to b	y the Examiner.					
Appli	cant may not request that any object	tion to the drawing(s)	be held in abeyand	ce. See 37 CFR 1.85(a).					
·	acement drawing sheet(s) including t	•		•	• •				
•	oath or declaration is objected to	by the Examiner. N	ote the attached	Office Action or form P1	ГО-152.				
-	<sup>7</sup> 35 U.S.C. §§ 119 and 120								
a)□ All 1.□ 2.□	nowledgment is made of a claim f b) Some * c) None of: Certified copies of the priority of Certified copies of the priority of Copies of the certified copies of	locuments have bee	en received. en received in Ap	oplication No	Stage				
13)□ Ackno since a 37 CF	application from the Internation ne attached detailed Office action wledgment is made of a claim for a specific reference was included R 1.78.	for a list of the cert r domestic priority u in the first sentence	ified copies not r inder 35 U.S.C. § e of the specifica	§ 119(e) (to a provisiona tion or in an Application					
14) Ackno	The translation of the foreign lang wledgment is made of a claim for nce was included in the first sentence.	r domestic priority u	inder 35 U.S.C. §	§§ 120 and/or 121 since	•				
Attachment(s)									
2) D Notice of D	eferences Cited (PTO-892) aftsperson's Patent Drawing Review (PT Disclosure Statement(s) (PTO-1449) Pa	•		ummary (PTO-413) Paper No( formal Patent Application (PT0					

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Claims 1-5, 9, 12, 15-17, 21, and 24 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Kiser et al.

Please see the comments made in regard to the above rejection in the previous Office action. As noted therein, the drawings and expressly discussed ranges disclosed in Kiser et al. appear to show values that anticipate the claimed ranges. For example, Fig. 7 shows a tube with a width of about 3.75 units, with alternating rows of 3 and 4 dimples of diameter 0.25 units. This works out to an area for the two rows spaced at least 1 inch apart longitudinally of about 4.5 percent of the tube wall area  $(7*\pi R^2/2*3.75)$ . Clearly, this one example reads on at least claims 1-3 and 5, if not claim 4. The implicit suggestion in Kiser et al. that longitudinal spacings differing from the "preferred" value of 1 inch would be suitable, say, for pressures greater than the 10-40 PSI value given in the illustrative embodiment would clearly suggest greater spacings (and thus reduced amount of dimple area as a percentage of the tube wall area) for fluids at greater pressure, and closer spacings at lower pressures, in order to avoid excessive pressure drop, as Kiser et al. explicitly teach.

Claims 6-8, 10, 11, 18-20, 22, and 23 are rejected under 35 U.S.C. 103(a) as being unpatentable over the combined teachings of Kiser et al. and Rhodes.

Please see the comments made in regard to the above rejection in the previous Office action.

Applicant's arguments filed 9/17/03 have been fully considered but they are not persuasive.

Contrary to applicant's assertions, as pointed out above, Kiser et al. do indeed teach a tube having dimensions that fall within the scope of the anticipated claims, such as claim 1, for example. Applicant should note that disclosure for the purposes of anticipation can be by drawings as well as words<sup>1</sup>. The remaining rejections have not been specifically traversed beyond pointing out the alleged deficiencies of the anticipation rejection based on Kiser et al., so no further comment appears necessary.

**THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In

<sup>&</sup>lt;sup>1</sup> See In re Mraz, 173 U.S.P.Q. 25.

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no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Allen J. Flanigan whose telephone number is (703) 308-1015. The examiner can normally be reached on M-F 9:00-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Scherbel can be reached on (703) 308-1272. The fax phone number for the organization where this application or proceeding is assigned is (703) 308-7764.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0861.

Allen J. Flanigan Primary Examiner Art Unit 3753

**AJF**